

CONTENTS

	PAGE
Annual Report of the Board of Directors	1
Appendix I. Report of Committee on Standards	15
Appendix II. Report of Committee on Publications	17
Appendix III. Report of Committee on Research	22
Appendix IV. Report of Committee on Simulated Service and Performance Testing	23
Appendix V. Report of Committee on Consumer Standards	24
Appendix VI. Report of Committee on Technical Committee Operations	25
Appendix VII. Report of Committee on Districts	27
Appendix VIII. Report of Committee on Real Estate	29

COMMITTEE REPORTS

Ferrous Metals

Report of Committee A-1 on Steel	30
Report of Committee A-4 on Iron Castings	40
Appendix I. Report of Corrosion Test Results of Fifteen Ferrous Metals After Twelve-Years Atmospheric Exposure (Subcommittee A04.33)	42
Report of Committee A-5 on Metallic-Coated Iron and Steel Products	64
Appendix I. Report on Field Tests of Atmospheric Corrosion of Metallic-Coated Steel Panels (Subcommittee A05.14)	68
Appendix II. Report on Atmospheric Exposure Tests of Wire and Wire Products (Subcommittee A05.15)	72
Appendix III. Report on Field Tests of Atmospheric Corrosion of Hardware (Subcommittee A05.16)	92
Report of Committee A-6 on Magnetic Properties	108
Report of Committee A-9 on Ferroalloys and Alloying Additives	109
Report of Committee A-10 on Iron-Chromium, Iron-Chromium-Nickel, and Related Alloys	111

Nonferrous Metals

Report of Committee B-1 on Wires for Electrical Conductors	116
Report of Committee B-2 on Nonferrous Metals and Alloys	118
Report of Committee B-4 on Metallic Materials for Thermostats and for Electrical Resistance, Heating, and Contacts	120
Report of Committee B-5 on Copper and Copper Alloys	123
Report of Committee B-6 on Die-Cast Metals and Alloys	129
Report of Committee B-7 on Light Metals and Alloys	131
Report of Committee B-8 on Electrodeposited Metallic Coatings and Related Finishes,	136
Report of Committee B-9 on Metal Powders and Metal Powder Products	139
Report of Committee B-10 on Reactive and Refractory Metals and Their Alloys ..	141

Cementitious, Ceramic, Concrete, and Masonry Materials

Report of Committee C-1 on Cement	142
Report of Committee C-3 on Chemical-Resistant Nonmetallic Materials	145
Report of Committee C-4 on Clay Pipe	147

CONTENTS

	PAGE
Report of Committee C-7 on Lime	148
Report of Committee C-8 on Refractories	150
Report of Committee C-9 on Concrete and Concrete Aggregates	152
Report of Committee C-11 on Gypsum	157
Report of Committee C-12 on Mortars for Unit Masonry	159
Report of Committee C-13 on Concrete Pipe	160
Report of Committee C-14 on Glass and Glass Products	162
Report of Committee C-15 on Manufactured Masonry Units	166
Report of Committee C-16 on Thermal and Cryogenic Insulating Materials	168
Report of Committee C-17 on Asbestos-Cement Products	171
Report of Committee C-18 on Natural Building Stones	173
Report of Committee C-19 on Structural Sandwich Constructions	174
Report of Committee C-20 on Acoustical Materials	175
Report of Committee C-21 on Ceramic Whitewares and Related Products	176
Report of Committee C-22 on Porcelain Enamel and Related Ceramic-Metal Systems	179
Report of Committee C-24 on Building Joint Sealants	182
Report of Committee C-26 on Fuel, Control, and Moderator Materials for Nuclear Reactor Applications	185
Miscellaneous Materials	
Report of Committee D-1 on Paint, Varnish, Lacquer, and Related Products	187
Report of Committee D-3 on Gaseous Fuels	193
Report of Committee D-4 on Road and Paving Materials	194
Report of Committee D-5 on Coal and Coke	198
Report of Committee D-6 on Paper and Paper Products	201
Report of Committee D-7 on Wood	203
Report of Committee D-8 on Bituminous and Other Organic Materials for Roofing, Waterproofing and Related Building or Industrial Uses	205
Report of Committee D-9 on Electrical Insulating Materials	210
Report of Committee D-10 on Packaging	215
Report of Committee D-11 on Rubber and Rubber-Like Materials	217
Report of Committee D-12 on Soaps and Other Detergents	230
Report of Committee D-13 on Textile Materials	234
Report of Committee D-14 on Adhesives	236
Report of Committee D-15 on Engine Antifreezes	239
Report of Committee D-16 on Aromatic Hydrocarbons and Related Chemicals ..	241
Report of Committee D-17 on Naval Stores	244
Report of Committee D-18 on Soil and Rock for Engineering Purposes	245
Report of Committee D-19 on Water	250
Report of Committee D-20 on Plastics	260
Report of Committee D-21 on Polishes	270
Report of Committee D-22 on Sampling and Analysis of Atmospheres	271
Report of Committee D-23 on Cellulose and Cellulose Derivatives	275
Report of Committee D-24 on Carbon Black	277
Report of Committee D-26 on Halogenated Organic Solvents	279
Report of Committee D-27 on Electrical Insulating Liquids and Gases	281
Report of Committee D-28 on Activated Carbon	287
Report of Committee D-29 on Peats, Mosses, Humus, and Related Products	288
Report of Committee D-30 on High Modulus Fibers and Their Composites	290
Miscellaneous Subjects	
Report of Committee E-1 on Methods of Testing	292
Report of Committee E-2 on Emission Spectroscopy	293
Report of Committee E-3 on Chemical Analysis of Metals	299
Report of Committee E-4 on Metallography	302

CONTENTS

	PAGE
Report of Committee E-5 on Fire Tests of Materials and Construction	304
Report of Committee E-6 on Performance of Building Constructions	307
Report of Committee E-7 on Nondestructive Testing	310
Report of Committee E-8 on Nomenclature and Definitions	317
Report of Committee E-9 on Fatigue	318
Report of Committee E-10 on Radioisotopes and Radiation Effects	320
Report of Committee E-11 on Statistical Methods	323
Report of Committee E-13 on Molecular Spectroscopy	325
Report of Committee E-16 on Sampling and Analysis of Metal Bearing Ores and Related Material	327
Report of Committee E-17 on Skid Resistance	330
Report of Committee E-18 on Sensory Evaluation of Materials and Products	333
Report of Committee E-19 on Chromatography	334
Report of Committee E-20 on Temperature Measurement	336
Report of Committee E-21 on Space Simulation	339
Report of Committee E-24 on Fracture Testing of Metals	340
Report of Committee E-27 on Hazard Potential of Chemicals	343
Report of Committee E-28 on Mechanical Testing	344
Report of Committee E-29 on Particle Size Measurement	346
Report of Committee E-31 on Computerized Laboratory Systems	347
Materials for Specific Applications	
Report of Committee F-1 on Electronics	351
Report of Committee F-2 on Flexible Barrier Materials	356
Report of Committee F-3 on Gaskets	357
Report of Committee F-4 on Surgical Implants	360
Report of Committee F-6 on Resilient Floor Coverings	362
Report of Committee F-7 on Aerospace Industry Methods	363
Report of Committee F-8 on Protective Equipment for Sports	366
Report of Committee F-9 on Tires	368
Deterioration of Materials	
Report of Committee G-1 on Corrosion of Metals	372
Report of Committee G-2 on Erosion by Cavitation or Impingement	377
Report of Committee G-3 on Deterioration of Nonmetallic Materials	379
Joint Committees	
Report of ASTM-ASME-MPC Joint Committee on Effect of Temperature on the Properties of Metals	380
Report of ALCA-ASTM Joint Committee on Leather	383
Report of Special Committee on Materials Inspection and Testing Laboratories ..	386
Report of Special Committee on Photographic Presentation	387
Report of Special Committee on Metric Practice	388
Report of the Intersociety Relations Committee on AACC, AOAC, AOCS, ASTM ..	389
1971 List of Special Technical Publications and Data Series Publications	390